



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

Frank L. Hall

**Serial No.:** 10/706,575

**Filed:** November 12, 2003

**For:** BALL GRID ARRAY SUBSTRATES  
VIA USE OF A LASER (as amended)

**Confirmation No.:** 6661

**Examiner:** S. Heinrich

**Group Art Unit:** 1725

**Attorney Docket No.:** 2269-4718.1US  
(00-0316.01/US)

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

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P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08A be considered by the Examiner and made of record. Copies of any cited foreign patents, publications, or pending unpublished U.S. applications are enclosed pursuant to 37 C.F.R. § 1.98(a)(2). The listed documents were cited by the Office in co-pending application Serial No. 11/486,288, filed on

July 13, 2006, and Serial No. 11/327,817 filed on January 6, 2006, and directed to a related invention.

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicant herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

U.S. Patent Documents

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
US – 5,320,789	06/1994	Nishii et al.
US - 5,815,232	09/1998	Miyazaki et al.

Foreign Patent Documents

<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee</u>
JP63105042A	05/1988	Toyoda Gosei KK
JP63070525A	04/1992	Mitsubishi Deenki KK
JP411068004A	03/1999	Sony Corp

Applicant offers to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is believed to be filed before the mailing date of the first Office Action on the merits subsequent to the filing of an RCE in the above-identified application and therefore no additional fee is due.

Respectfully submitted,

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Date: February 23, 2007  
JRD/sfc:lmh

Enclosures: Form PTO/SB/08A  
Cited Non-U.S. Patent Documents

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

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of

1

Attorney Docket Number

**Complete if Known**

Application Number

10/706,575

Filing Date

November 12, 2003

First Named Inventor

**Frank L. Hall**

**Group Art Unit**

1725

Examiner Name \_\_\_\_\_

S. Heinrich

Attorney Docket Number

2269-4718.1US (00-0316.01/US)

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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